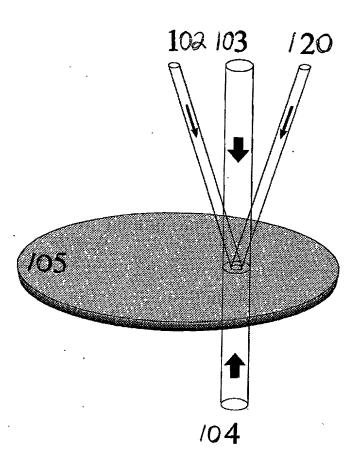


Figure 2

Docket No.: 301962.3000-100 Title: Optical Storage System

Inventors: Wu et al.



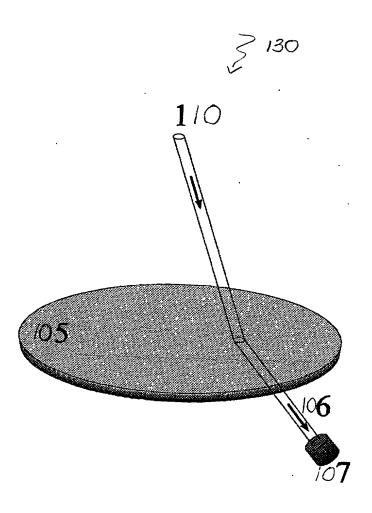


102 and 120: Red coherent laser beams with linear polarization

103 and 104: Blue light beam (not required to be coherent) with linear polarization

105: Azobenzene-PVA film

Figure 3



110: Reading beam of red coherent laser

105: Azobenzene-PVA film

106: Red diffraction beam

107: Photo-detector

Figure 4

v 134

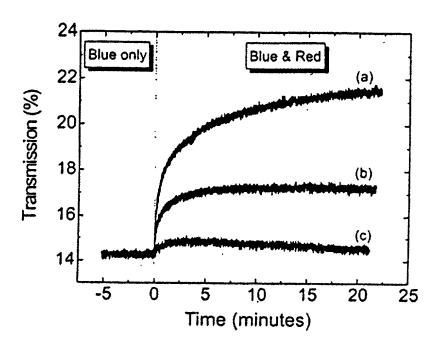
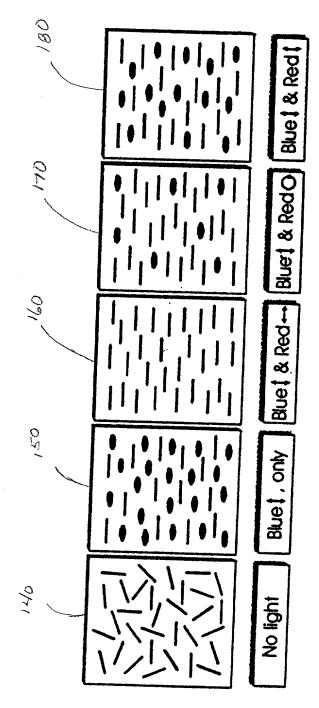


Figure 5



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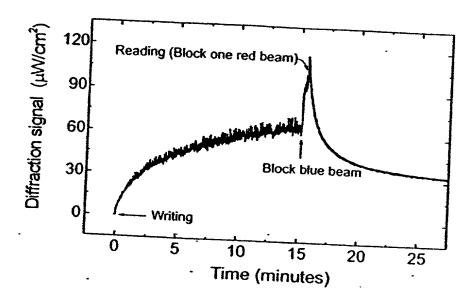


Figure 7

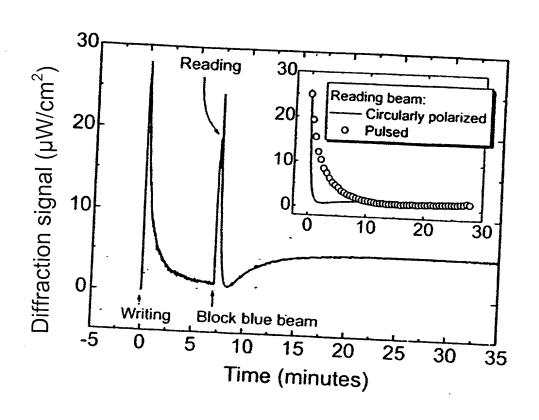


Figure 8

Docket No.: 301962.3000-100
Title: Optical Storage System
Inventors: Wu et al.

244

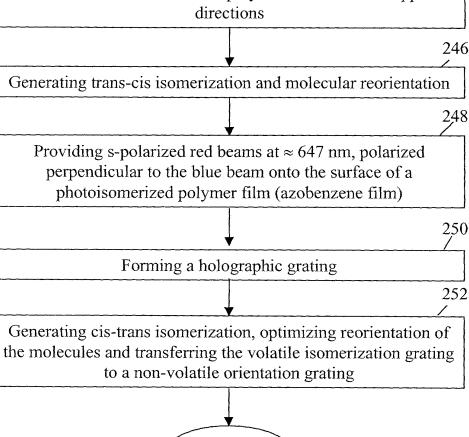
Providing a p-polarized beam (blue light) at a wavelength of ≈
442 nm onto the surface of the polymer film from two opposite directions

246

Generating trans-cis isomerization and molecular reorientation

248

Providing s-polarized red beams at ≈ 647 nm, polarized perpendicular to the blue beam onto the surface of a



End

Figure 9

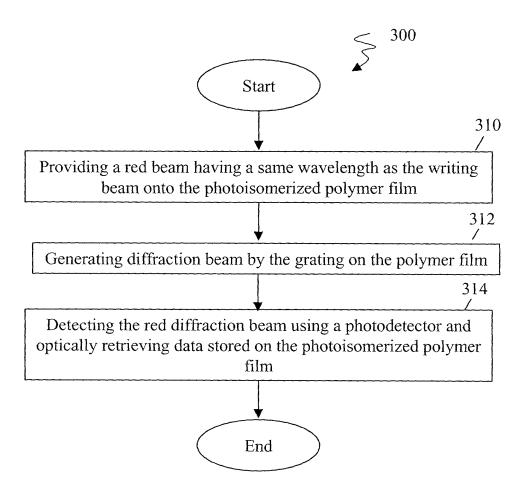
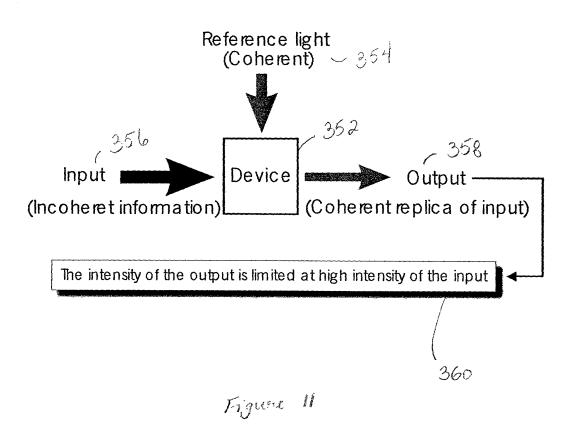
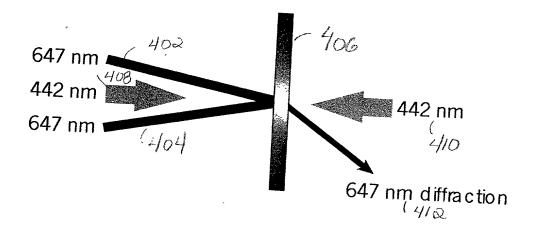


Figure 10

350





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